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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/665,164	09/18/2003	John L. Melanson	1437-CA	6350
20284	7590 03/09/2005		EXAMINER	
CIRRUS LOGIC, INC.			KINKEAD, ARNOLD M	
CIRRUS LOGIC LEGAL DEPARTMENT 2901 VIA FORTUNA			ART UNIT	PAPER NUMBER
AUSTIN, T	X 78746	2817		
			DATE MAILED: 03/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan.	10/665,164	MELANSON, JOHN L.				
Office Action Summary	Examiner	Art Unit				
	Arnold M. Kinkead	2817				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	_·					
2a) This action is FINAL . 2b) ☐ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>21</u> is/are allowed.						
6)⊠ Claim(s) <u>1,2,8,9 and 15-17</u> is/are rejected.	6)⊠ Claim(s) <u>1,2,8,9 and 15-17</u> is/are rejected.					
<u> </u>	7)⊠ Claim(s) <u>3-7,10-14 and 18-20</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	,,□ ,,,,_	(070 440)				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

Specification

 The disclosure is objected to because of the following informalities: On p. 4, lines 9-10, the patent application data for 10/043,558 should be updated with corresponding US Pat no. 6,690,240 information.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-7, 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 10, and claim 5, line 3(of claim), " integral" lacks proper antecedent basis. All other dependent claims dependent from claim 1 are also indefinite.

In claim 18, line 8, "the summer" lacks proper antecedent basis.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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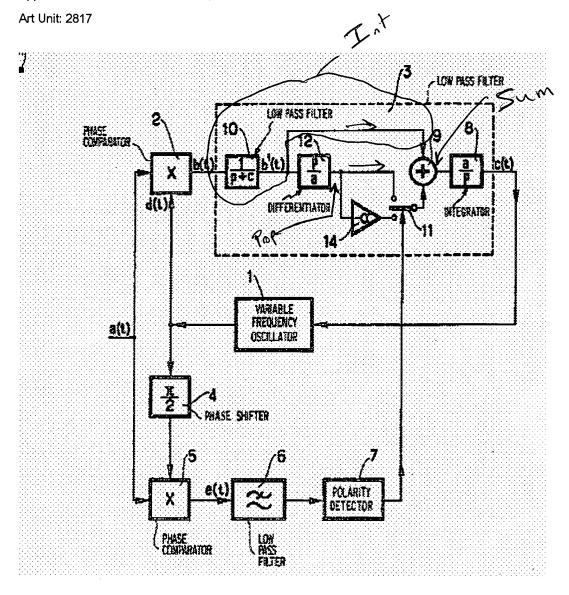
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Claims 1,2,8,9,15,16,17, rejected under 35 U.S.C. 102(b) as being anticipated by Poinas(US 4,205,277). The loop filter for a PLL implementation, see reference figures 1 and 4, (please note examiner's labeling for the integration(I)/proportional(P)/summing elements(SUM); the figure 1 below shows a loop filter(3) with an integral path circuit (10)receiving an input signal (b(t))from the Phase comparator(2); note reference a(t). The phase comparator allows the integrating path to track input signal levels based on the detected phase differences. The **proportional** and **integral** signals are developed and summed(9) and these paths are cascaded in series (note the proportional path with differentiator 12, see also figure 4, C1 for differentiating cap). The integral path including an amp(19) and integrating CAP(Co), see figure 4. A summer (SUM node 9) is cascaded with the integral and proportional paths. The method steps being inherent.

See over

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Allowable Subject Matter

- 6. Claims 3-7, 18 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. 10-14, and 19, 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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8. Claim 21 is allowed.

The examiner could not find fair suggestion for delaying charging of a holding capacitor...after an occurrence of a charge pump...also, a differentiating capacitor and holding capacitor with switches, and filtering the low noise loop filter output with resistor and capacitor coupled to ground....

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold M. Kinkead whose telephone number is 571-272-1763. The examiner can normally be reached on Mon-Fri, 8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnold M Kinkead
Primary Examiner

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